CLAIMS

1 1. A method for managing access to resources, comprising:
2 accessing a list of resource signatures, each of the resource signatures being
3 classified to indicate an accessibility status of a corresponding resource;
4 generating a verification signature for a requested resource;
5 comparing the verification signature for the requested resource to the list of
6 resource signatures; and
7 determining the accessibility status of the requested resource in accordance with

2. A method according to Claim 1, wherein the resources include applications or programs.

the accessibility status by which the resource signature matching the verification

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signature is classified.

- 3. A method according to Claim 1, wherein the resource signature for each of the respective resources includes a manipulation of structure-related data from the resource.
- 4. A method according to Claim 1, wherein the resource signature for each of the respective resources includes a hash of function names from each of the respective resources.

- 5. A method according to Claim 1, wherein generating the verification signature for the requested resource includes:
 retrieving data that uniquely identifies the resource;
 sorting the retrieved data;
 linking the sorted data; and
- 1 6. A method according to Claim 5, wherein the resources include applications 2 or programs.

executing a mathematical manipulation of the linked data.

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- 7. A method according to Claim 5, wherein the retrieved data includes an import table.
- 8. A method according to Claim 5, wherein the retrieved data includes function names from an import table.
- 9. A method according to Claim 5, wherein the retrieved data includes dynamic link library (DLL) names from an import table.
- 1 10. A method according to Claim 1, wherein a same procedure is followed to 2 generate each of the resource signatures and to generate a verification signature.
- 1 11. A method according to Claim 1, wherein the accessibility status of the resources includes one of permissible or impermissible.

- 1 12. A method for generating an application identifier, comprising:
- receiving a command to generate an identifier for an application;
- retrieving an import table from the application;

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- 4 sorting information from the retrieved import table; and
- 5 performing a cryptographic function on the sorted information.
- 1 13. A method according to Claim 12, wherein the import table is retrieved from 2 an executable of the application.
 - 14. A method according to Claim 12, wherein sorting information from the retrieved import table includes sorting function names according to at least one predetermined criterion.
- 1 15. A method according to Claim 12, wherein performing a cryptographic function on the sorted information includes performing a one-way hash function.
- 1 16. A method of restricting particular applications, comprising:
- receiving a list of application fingerprints corresponding respectively to restricted applications;
- 4 receiving a request to execute an application;
- 5 generating a confirmation fingerprint for the requested application;
- 6 comparing the confirmation fingerprint to the list of application fingerprints; and
- restricting the requested application if the confirmation fingerprint matches one of
- 8 the application fingerprints respectively corresponding to restricted applications.

- 1 17. A method according to Claim 16, wherein generating a confirmation 2 fingerprint for the requested application includes:
- retrieving data from an executable of the requested application describing linkages to other applications;
- sorting the retrieved data;
- organizing the sorted information in a predetermined manner; and
- 7 hashing the organized information.
- 1 18. A method according to Claim 17, wherein the retrieved data includes an 2 import table.
- 1 19. A method according to Claim 17, wherein the sorted information includes function names.
- 20. A method according to Claim 16, wherein the restricted applications are not licensed.
- 1 21. An apparatus, comprising:
- a licensing manager component to provide identification for an application and to
- 3 further assign a classification of the application as being restricted or unrestricted; and
- a developer component to code an operating system to include the identification in
- 5 correspondence with the classification.

- 22. An apparatus according to Claim 21, wherein the licensing manager component is to generate identification for an application using an import table from the application.
- 23. An apparatus according to Claim 21, wherein the licensing manager component is to provide a restricted classification for an unlicensed application.
- 24. An apparatus according to Claim 23, wherein, for an unlicensed application, the licensing manager component is to:
- retrieve an import table from an executable of the application;
- sort and string together function identifiers from the import table; and
- 5 execute a cryptographic algorithm on the function identifiers.
- 25. An apparatus according to Claim 24, wherein the cryptographic algorithm is a hashing algorithm.
 - 26. An apparatus, comprising:
- an interface to receive a request for a running state of an application;
- an application identifier to generate an identifier for the application;
- an application manager to match the identifier against a list of identifiers
- 5 indicating whether corresponding applications are eligible or ineligible for a running
- 6 state; and

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- an enabler to enable the running state for the application if the identifier is not
- 8 matched to an identifier indicating that the application is ineligible.

- 27. An apparatus according to Claim 26, wherein the application identifier is to generate an identifier using an import table from the application.
- 1 28. An apparatus according to Claim 27, wherein the application identifier is 2 to:
- retrieve an import table from an executable of the application;
- sort and string together the function identifiers from the import table; and
- 5 hash the function identifiers.
- 1 29. An apparatus according to Claim 28, wherein the instruction to hash further includes and instruction to execute an MD5 hashing algorithm.
- 30. A computer-accessible medium having one or more instructions that are executable by one or more processors, the one or more instructions causing the one or more processors to:
- 4 receive a command to generate a program fingerprint;
- sort static data from within the program; and
- 6 create a program fingerprint using the sorted static data.
- 1 31. A computer-accessible medium according to Claim 30, wherein the static data includes an import table.

- 32. A computer-accessible medium according to Claim 30, wherein the static data includes function names corresponding to an import table from an executable of the program.
- 1 33. A computer-accessible medium according to Claim 30, wherein the one or more instructions that cause the one or more processors to sort static data further cause the one or more processors to:
- organize the function names from an import table corresponding to a program
 executable in accordance with at least one predetermined criterion; and
- 6 link the organized function names.
- 34. A computer-accessible medium according to Claim 33, wherein the one or more instructions that cause the one or more processors to create a program fingerprint further cause the one or more processors to execute a hashing algorithm on the sorted static data.
- 35. A computer-accessible medium having an application programming interface (API), the API having one or more instructions to cause one or more processors to:
- 4 receive a request to run a program;
- 5 generate a signature for the program;
- compare the generated signature against a compilation of signatures corresponding to restricted programs; and

- enable only those programs for which the signature does not match with any of the compiled signatures.
- 36. A computer-accessible medium according to Claim 35, wherein the one or more instructions to generate a signature for the program cause the one or more processors to sort a list of elements from an import table corresponding to an executable of the program.
- 37. A computer-accessible medium according to Claim 36, wherein the one or more instructions to generate a signature for the program cause the one or more processors to hash a sorted list of function names from the import table.
- 1 38. A computer-executable medium according to Claim 35, wherein the API is 2 included in an operating system.
- 39. A computer-executable medium according to Claim 35, wherein the operating system runs on a web server.
- 1 40. A computer-executable medium according to Claim 35, wherein the operating system runs on an application server.
- 1 41. A license enforcement method, comprising:
- 2 generating a digital signature for each of a plurality of applications;
- classifying each of the digital signatures in accordance with a licensing status for the corresponding applications;

- 5 coding an operating system to:
- 6 include the classified digital signatures,
- 7 generate a digital signature for a requested application,
- map the digital signature for the requested application to the classified
- 9 digital signatures, and

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- run the requested application when the digital signature for the requested
- application does not map to digital signature classified as not being licensed.
- 1 42. A license enforcement method according to Claim 41, further comprising
- 2 downloading an updated list of the classified digital signatures to the operating system.